

## SOLID-STATE IMAGE PICKUP APPARATUS

### BACKGROUND OF THE INVENTION

#### Field of the Invention

5           The present invention relates to a solid-state image pickup apparatus and image pickup system and, more particularly, to a solid-state image pickup apparatus having a pixel including a photoelectric conversion unit, a read transistor for reading a signal  
10       from the photoelectric conversion unit, and a reset transistor for supplying a reset signal to the input portion to reset the input portion of the read transistor, and an image pickup system using such the apparatus.

#### 15       Related Background Art

          Conventionally, a CCD has been often used as a solid-state image pickup apparatus because of its high S/N ratio. On the other hand, a so-called amplification type solid-state image pickup apparatus  
20       that is advantageous in a simple manner of use or low power consumption has also been developed. An amplification type solid-state image pickup apparatus supplies signal charges accumulated in a light-receiving pixel to the control electrode of a  
25       transistor in the pixel unit and outputs an amplified signal from the main electrode. Examples of amplification type solid-state image pickup apparatus